Approved For Release 2008/04/29 : CIA-RDP80-00810A007000780010-1 CENTRAL INTELLIGENCE AGENCY **REPORT** INFORMATION REPORT 25X1 CD NO. COUNTRY DATE DISTR. 24 June 1955 USSR (Kuybyshev Oblast) **5** 25X1 SUBJECT Activities at Zavod No. 2, Kuyb shev NO. OF PAGES 25X1 PLACE NO. OF ENCLS. **ACQUIRED** REFERENCES DATE OF SUMMEMENT TO INFO. 25X1 THIS IS UNEVALUATED INFORMATION 25X1 25X1 forwarded as received. Attached is 25X1 25X1 25X1 25X1 25X1 C-O-N-F-I-D-E-N-T-I-A-L CLASSIFICATION STATE X AIR NAVY ARMY Approved For Release 2008/04/29: CIA-RDP80-00810A007000780010-1

Appr	oved For Release 2008/04/29 : CIA- CLASSIFICATION_	RDP80-00810A007000780010-1	
COUNTRY USSR	-2-	REPORT	25X
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EVALUATION	PLACE OBTAINED_		
DATE OF CONTENT			
DATE OBTAINED_	DATE PF	REPARED 15 December 1954	
REFERENCES			
	CLOSURES (No. & TYPE) 1 - one	sketch on ditto	
REMARKS	This is UNEVALUATED Inform	nation	
			

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P-130 Diesel Power Unit.

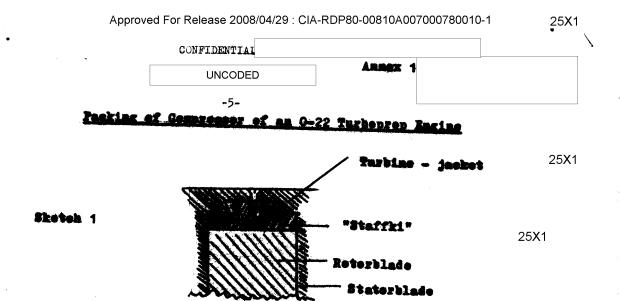
- 1. The P-130 had been projected at the Junkers Plant in Dessau in 1944 and 1945. Details were obtained only on the low pressure compressor; other information was obtained in conversations with other experts. primarily with Dipl Ing Guenther Lange. The P-130 was believed to be a power unit combining a diesel engine and a thrust nozzle. About 15 percent of the air flow which branched off from the fourth stage of the axial low pressure compressor was fed to a small high pressure compressor. The system resembled to by-pass principle or dual flow turbo-jet unit. The tapping was similar to the system of the JUMO-004. The branched-off air was used to charge a diesel engine which in turn was to drive a propeller and the two abovementioned compressors. The remaining 85 percent of the air flow was used to cool the diesel engine and then to be bled into a thrust nozzle which was similar to the Lorin type unit. The output of the diesel exhaust gases was used to increase the thrust. The higher efficiency of the propeller drive was to be used for take offs and for speeds up to about 850 km/h up to medium altitudes, while the thrust nozzle was to be activated for speeds of more than 850 km/h and at higher altitudes with the propeller switched to feathered position.
- 2. According to Dipl Ing Guenther Lange who had designed the diesel engine, the unit was allegedly not related to any Junkers type diesel engines previously developed. The projecting work at Dessau did not exceed the preliminary theoretical projecting and calculating. At Upravlencheski, the project was continued and further developed until it was dropped when it became apparent that with the small dimensions required, the diesel engine was thermically and dynamically overloaded. The project was never resumed. No information was obtained on the type of construction, number of cylinders, dimensions and the projected output of the diesel engine and the thrust nozzle.

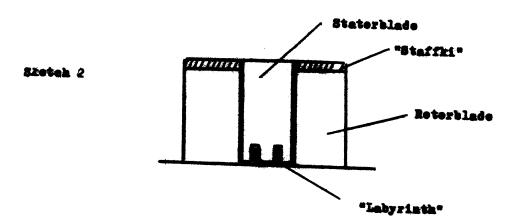
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PTL	-022 A Turbo	oprop Engine				
3.	had been rewas unusual but cobalt	as not remember epeatedly menti lly high and the ". The material	and the code numbered. coned that the coba nat "the stuff near was ground. Ing W r information on the	It content of th ly contained not eckwerth (fnu) m	it e alloy hing	25X1 25X1
4•			compression ratio the compressor bl		obtained	25X1 25X1
<u>Sta</u>	The staffky between turn was previous into the trust to fill our in the turn prevent the labyrishlades. No improvement tips of the so that with more be	rbine blades and asly stated. Note this recess to be provided as the state of the s	led only in the turn nd jacket and not in otches with a dove- and the individual by forming an inter re screwfastened to in the direction of alled between rotor mation could be obtained to the reduction of the lot the turbine blades lated temperatures me expanding materi	n the compressor tail groove were "Staffkys" were nal ring. Some s the turbine jac f rotation. 3 unit and stator ained.4 These m sees occurring a and the turbine the space between	as milled inserted taffkys ket to mechanical t the jacket m would	
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1.	Comment. During the last years of World War II, a combined power unit with propeller drive and thrust nozzle and a propeller adjustment for feathered position at higher speeds had been	25X1
	mentioned at the development department for power units of the Riechsluftfahrtministerium (Ministry of Aviation).	25 X 1
2.	Comment. An 85 percent cobalt alloy is improbable.	25 X 1
3.	Comment. For a sketch of the staffky graphite packing, see	25 X 1
	Annex. The present information clarifies the type of construction and function of the packing, the so-called staffkys, which could not be determined from previous contradictory information.	
4•	Comment. For a sketch of the probable lapyrinth arrangement, see Annex. The sketch was prepared by this project. Further information is required to obtain clarification.	25X1
5.	Comment. These experiments are reported for the first time.	25 X 1

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